OEC 7700
Service Setup
Preview with B345

for calibration
B345
00-451142-01

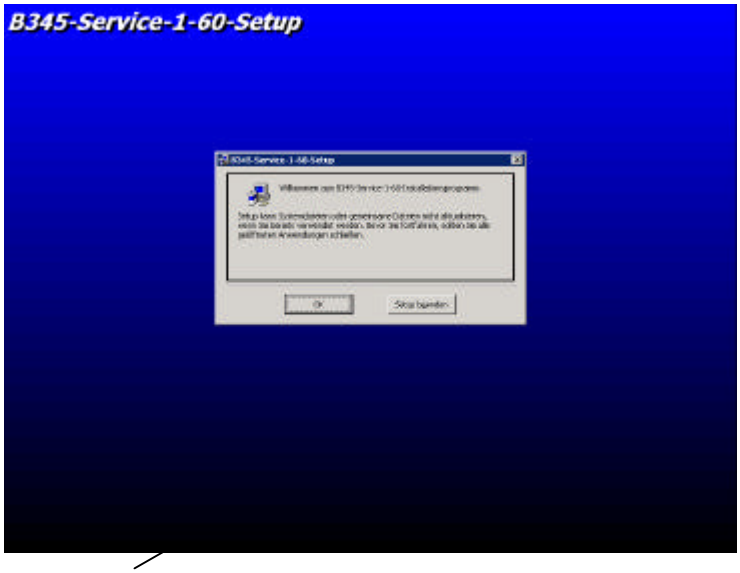
Iris-Collimator
Slot Collimator
Preview
- DAP
- DAP + Laser

PC-SW Version 1.8
B345 Version „B345 04 08.h86“

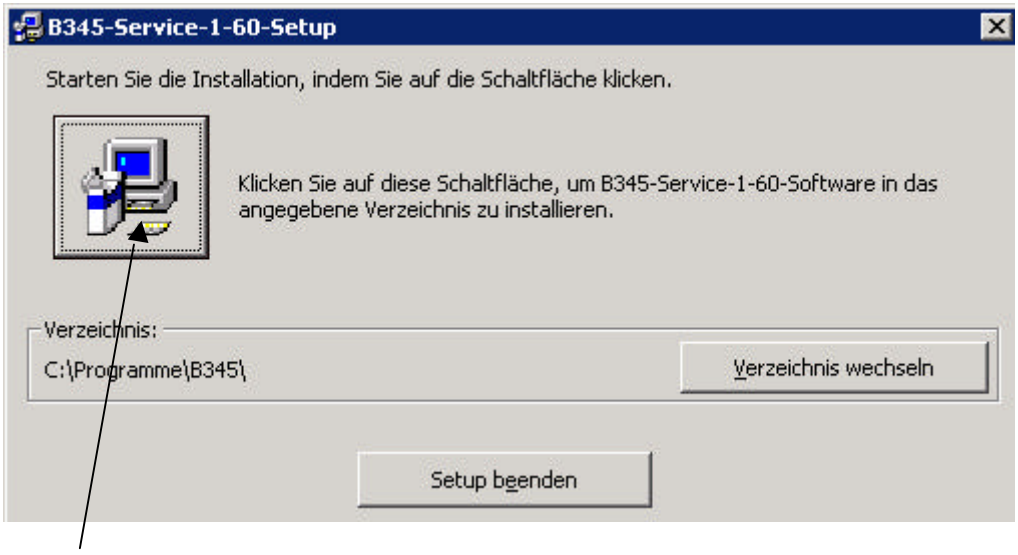
1. Installation PC-SW for B345 2
2. B345 Software 4
   1. Start Programm 4
   INFO: 5
   2. Monitorcart settings for DAP 6
   3. Monitorcart settings for Preview 6
3. Callibration 7
   Mechanical Callibration „Slot Collimator“ 7
   Mechanical Callibration „Iris-Collimator“ 7
   Iris Collimatior Adjustment 8
4. Preview Adjustment 11
5. DAP Adjustment 13

1. Installation PC-SW for B345

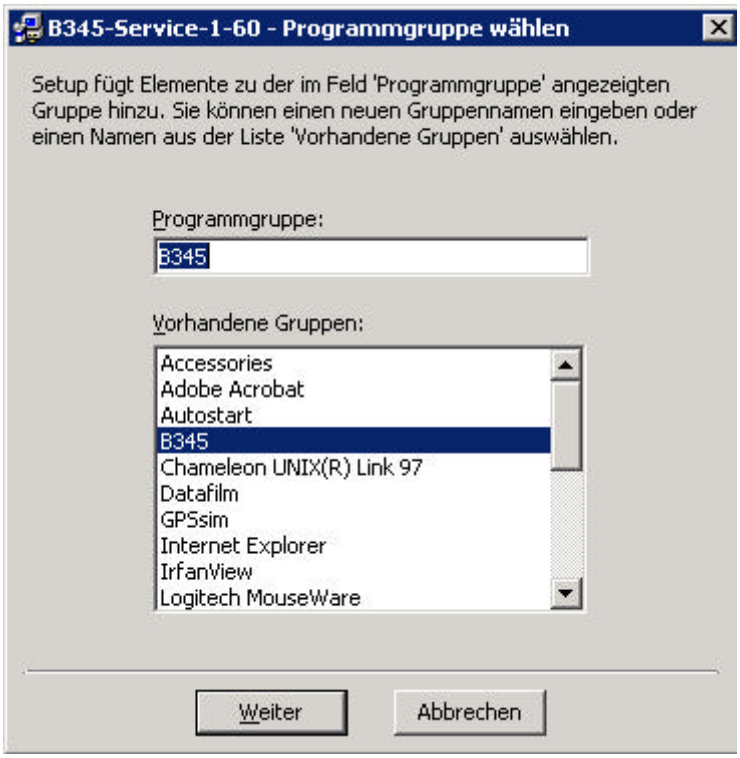
Start „Setup.exe“



Press „OK“


B345-Service-1-60-Setup
Starten Sie die Installation, indem Sie auf die Schaltfläche klicken.
Klicken Sie auf diese Schaltfläche, um B345-Service-1-60-Software in das angegebene Verzeichnis zu installieren.
Verzeichnis:
C:\Programme\B345\
Verzeichnis wechseln
Setup beenden

Press



press „weiter“

press „OK“

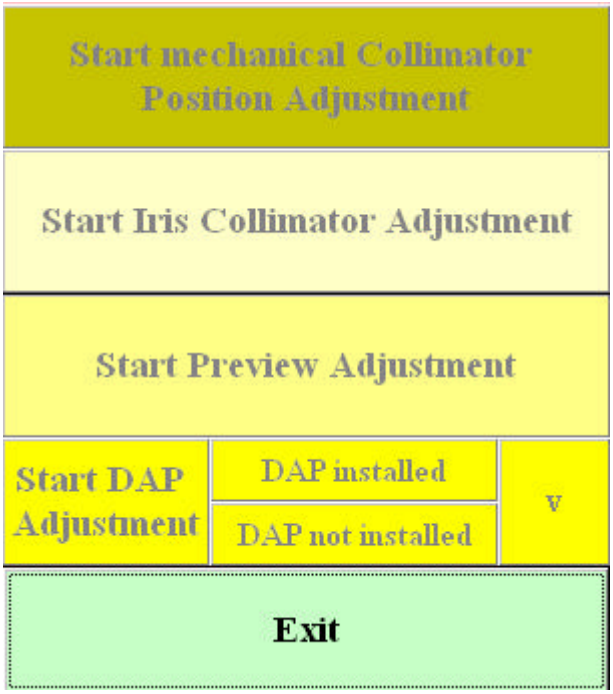
Programm installed successful

2. B345 Software

Normal Mode	= Standart Mode (no MAG no HAND-MODE no FIME.MODE)
MAG 1	= Hand Mode or Mag Mode
MAG 2	= Hand-Mode and Mag Mode
Film	= Film Mode

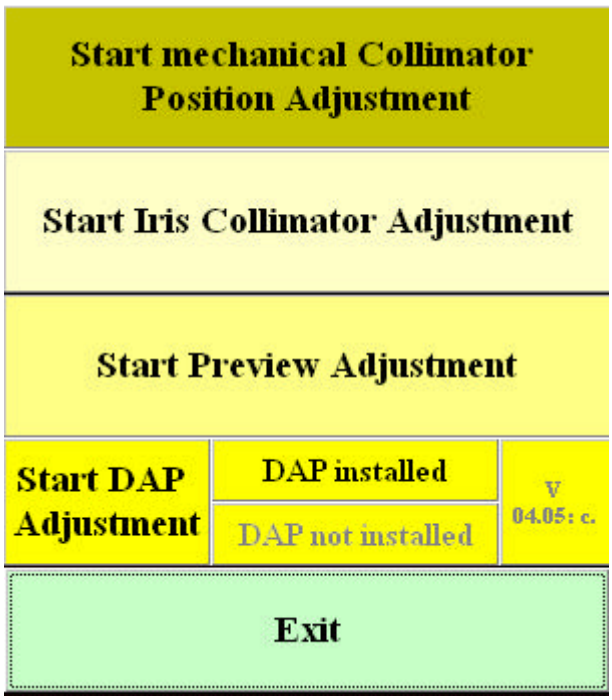
1. Start Programm

Start Programm B345 / b345_180



Note: please select COM1 or COM2 (MENUE / OPTION/COM)

if B345 to the right COM port connected some buttons get active



INFO:

04.05:xx	SW.Version and SW-LABEL	
04.xx:xx	B345 with DAP	„DAP installed“ is actice
03.xx:xx	B345 without DAP	„DAP not installed is actice
xx.xx:nc	B345 is not callibrated	
	after callibration „Iris Collomator adjustmen“ and „Preview adjustmen“ display change to „c“	
xx.xx:c	B345 is callibrated	
Example	DISPLAY 03.05.c	SW Version 05
		B345 is callibrated
		SW Label = B345 04 05.h86

2. Monitorcart settings for DAP

For the equipment to work correct, the following changes have to be made in the service menu.

1. Open service menu (Shift Home)
- Servicemenue
- Password BMS 95

2. Select DAP menu

3. In the DAP menu open „Reference value“ first, then „Tolerance“ and make the following inputs:

Reference value	= **1**
Tolerance	= **0**
Korrectur value	= **1,00 !!!!!!!**

3. Monitorcart settings for Preview

For the equipment to work correct, the following changes have to be made in the service menu.

1. Open service menu (Shift Home)
- Servicemenue
- Password BMS 95

2. Select Preview menu

3. Select Permanent Preview
„ON“ during Callibration
„**OFF“ for Normal Work after callibration !!!!**

3. Callibration

Generator is adjusted

- mechanical Position
- KV and mA

Mechanical Callibration „Slot Collimator“

open IRIS Collimator to mount the „Collimator Center tool“ in the Collimator DAC-8 Unit

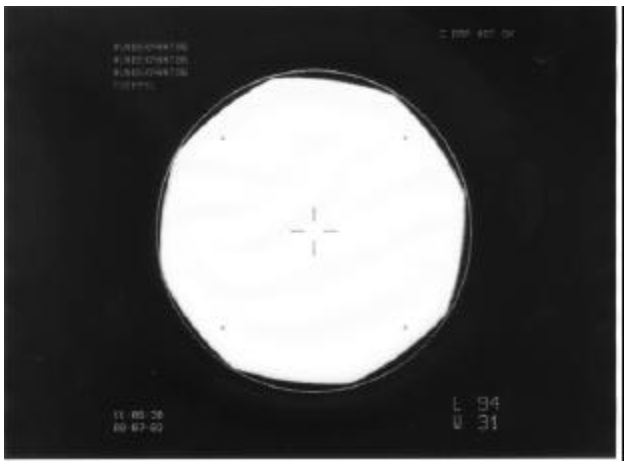
switch AIMING CROSS „ON“ = Ctrl + „L“
adjust Slot Collimator Center to the AMING cross Center (during X-Ray)
fix Slot Collimator and control correct position

Mechanical Callibration „Iris-Collimator“

Press

from PC-SW

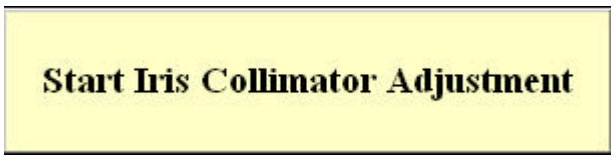
you see a circle
use Iris open / close Button and IRIS Collimator to adjust the right position during X-Ray



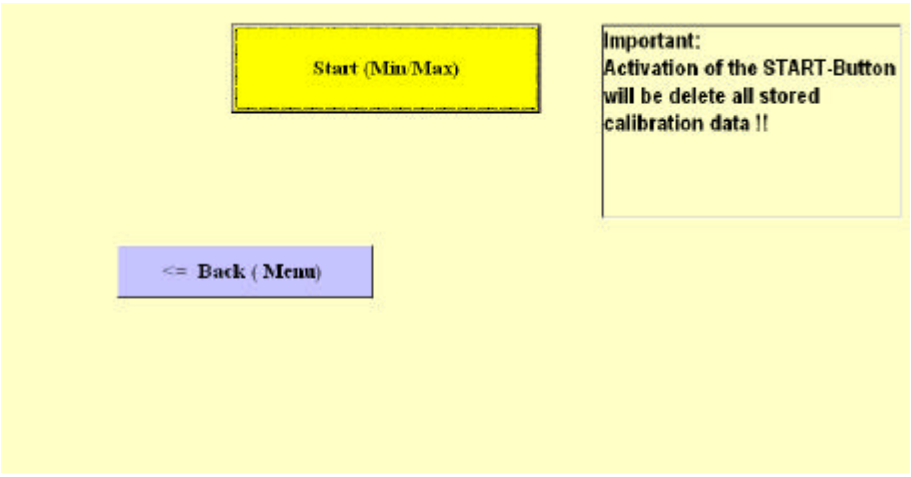
fix Iris Collimator and control correct position

Iris Collimatior Adjustment

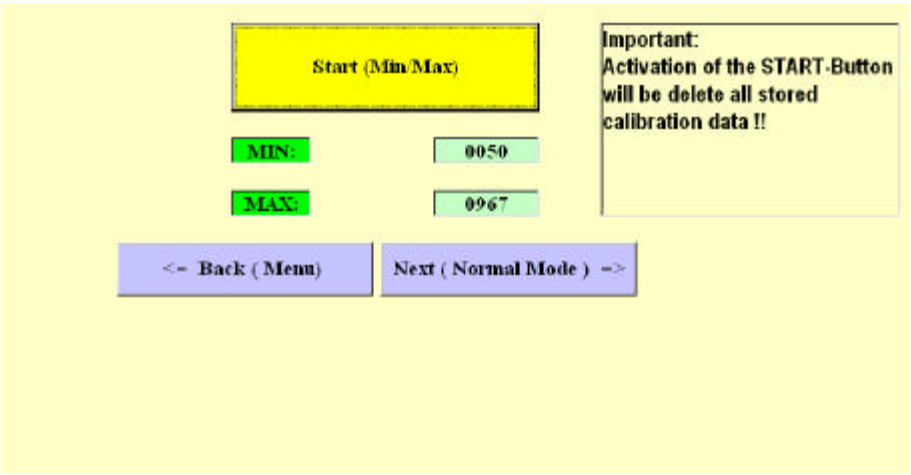
press



you will see



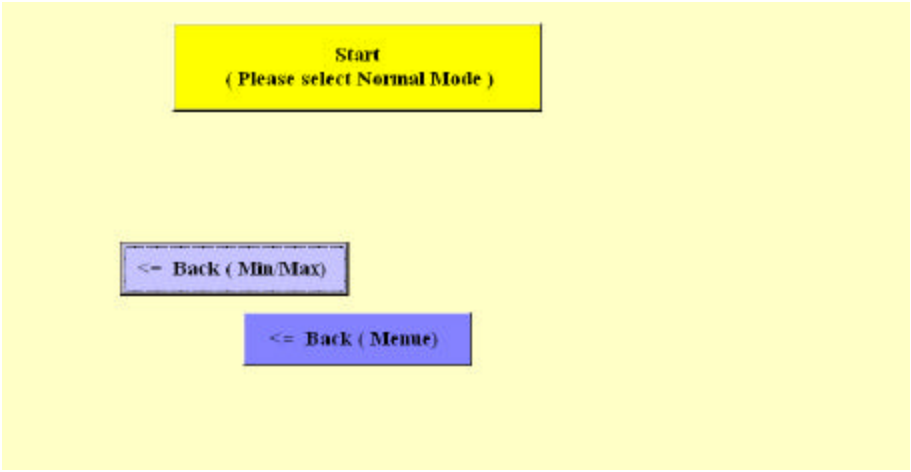
Start Callibration with Button „Start (MIN/MAX)“
during the next 5-10 sec. the min. Position and the max Position from the Iris Collimator will automaticly found from the Software



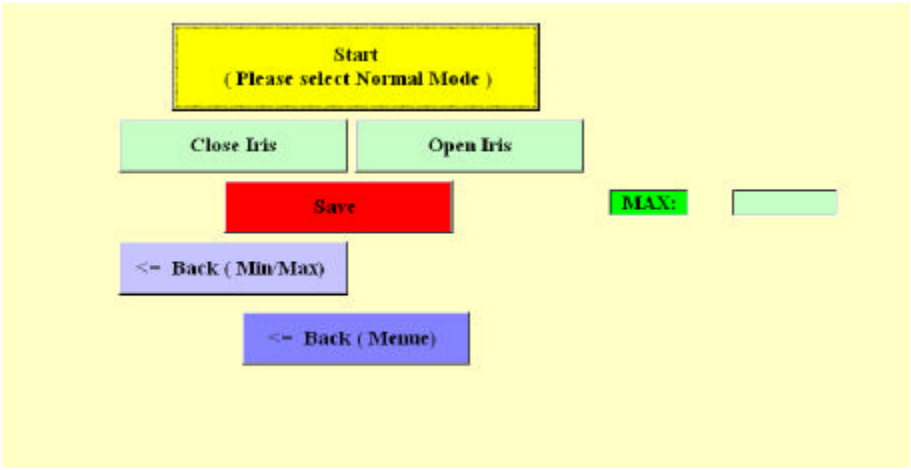
if not
MIN < 100 and MAX > 900
than press Start (Min/Max) again (maybe 5 times)

please press “Next (Normal Mode)”

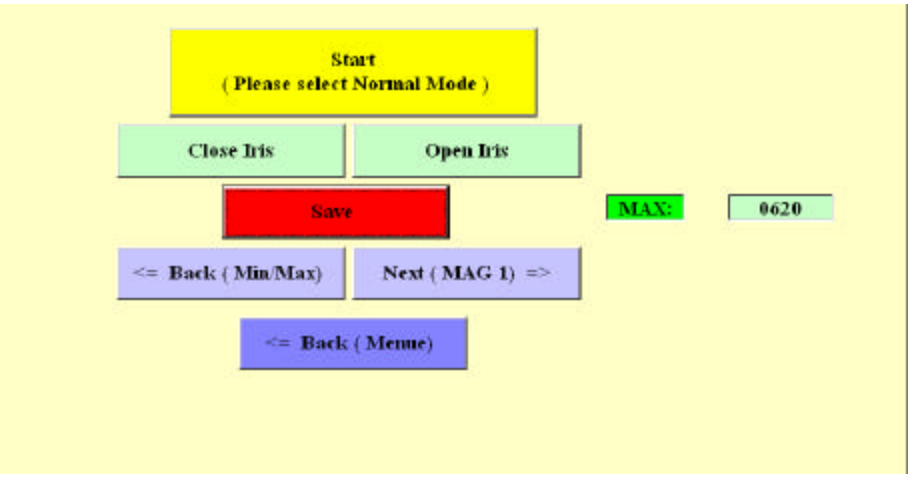
Press „START“ Button after select the Normal Mode



Use „Close Iris“ and „Open Iris“ Buttons or Collimator Key´s from the C-Arm Keyboard to adjust the Iris Collimator the the Position for „Normal – Mode“
(Note: Collimator position only a little bit outside the x-Ray Picture



you will see the actual Position (value 0 – 1000) behind MAX
Note you can press SAVE Button so oft you want
after save the osition you can select „NEXT (MAG 1)“



Press “Next (MAG 1)“

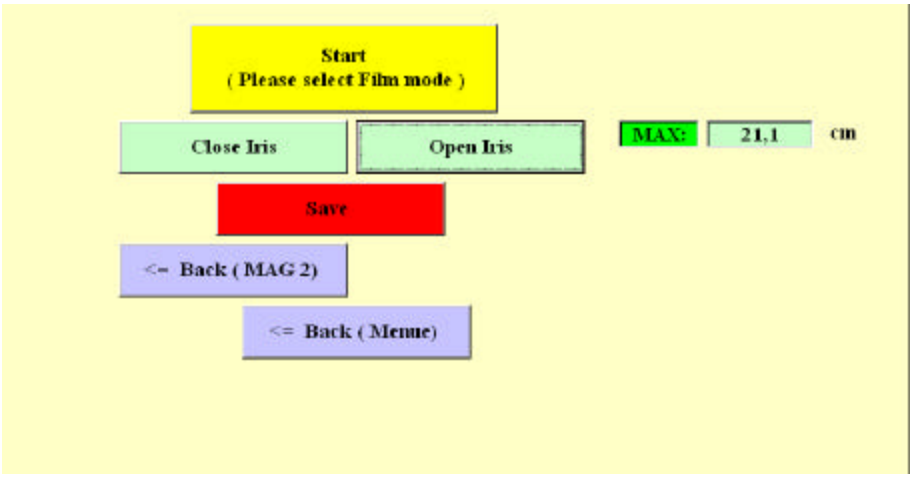
Select Hadn Mode **or** MAG Mode from the C-Arm Keyboard
adjust the Iris Position
save Iris Position

Press “Next (MAG 2)“

Select Hand Mode **and** MAG Mode from the C-Arm Keyboard
adjust the Iris Position
save Iris Position

Press “Next (FILM)“

Select Hand Mode **and** MAG Mode from the C-Arm Keyboard
adjust the Iris Position to 21.1 cm – 21,3 cm



save Iris Position

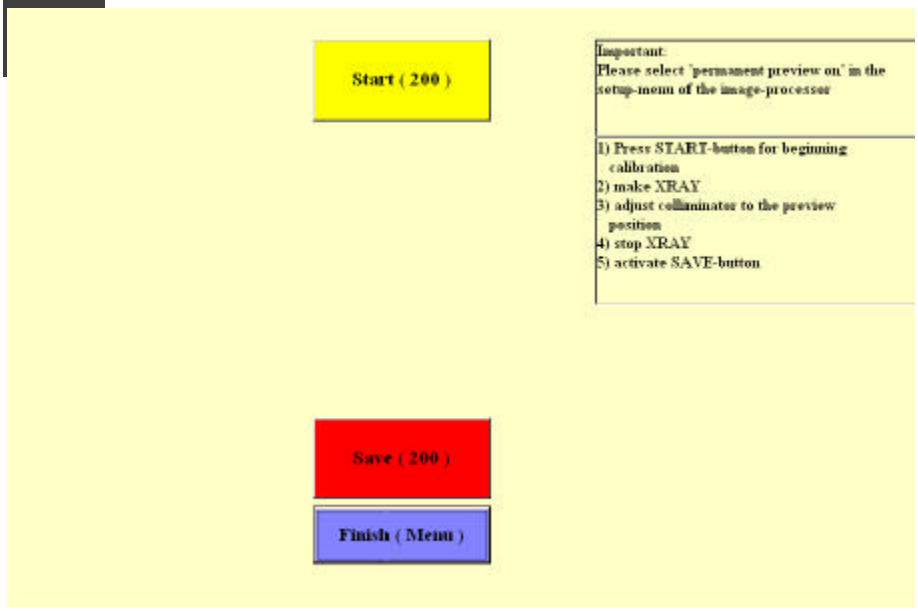
and press

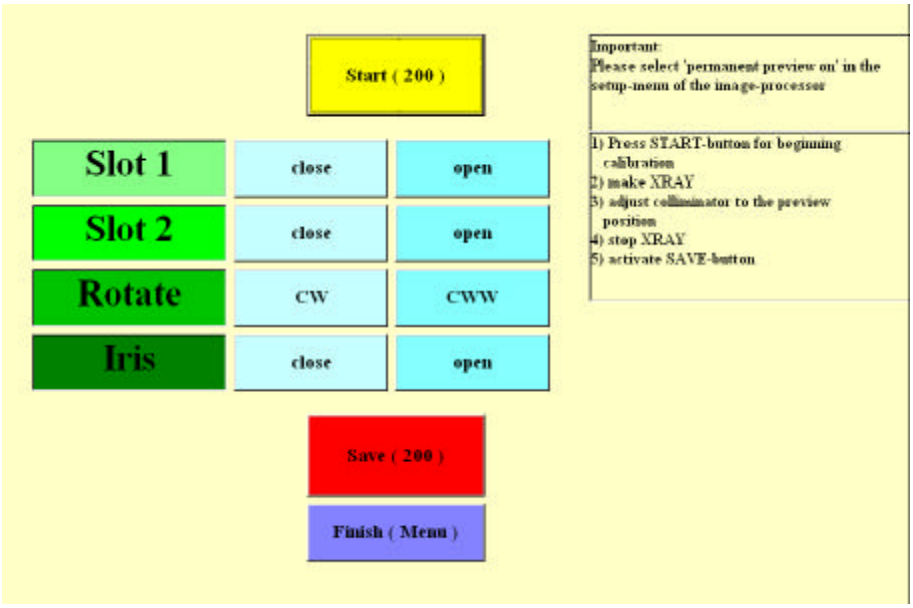
IRIS Callibration for each Mode is now finish

4. Preview Adjustment

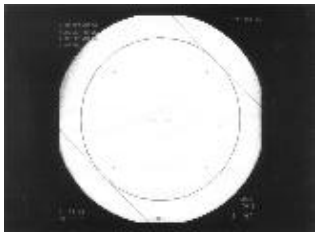
Start Preview Adjustment

Press „Start (200)“

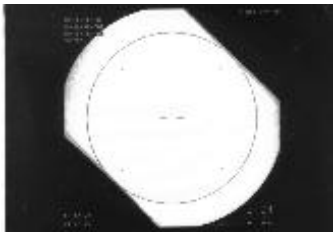

Start (200)
Important:
Please select 'permanent preview on' in the setup-menu of the image-processor
1) Press START-button for beginning calibration
2) make XRAY
3) adjust collimator to the preview position
4) stop XRAY
5) activate SAVE-button
Save (200)
Finish (Menu)



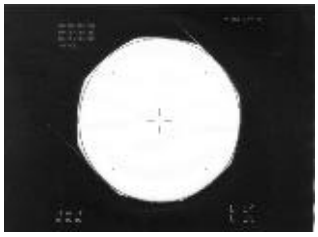
Use Collomator Button´s to adjust Slot Collimator and Iris Collimator to the Preview Line



Step 1

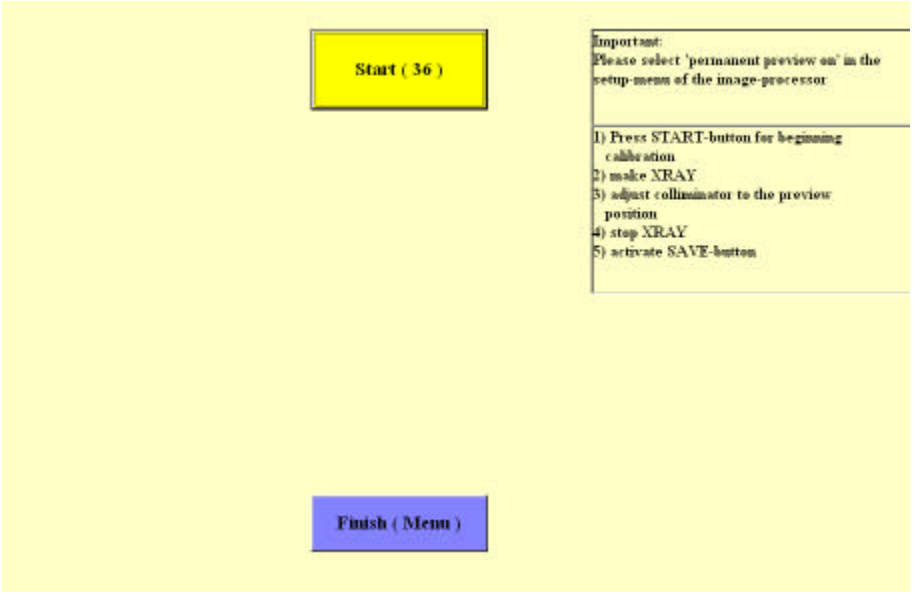


Step 2

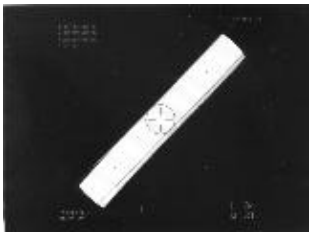


Step 3

after adjustment press Button „Save (200)“


Start (36)
Important:
Please select 'permanent preview on' in the setup-menu of the image-processor
1) Press START-button for beginning calibration
2) make XRAY
3) adjust collimmator to the preview position
4) stop XRAY
5) activate SAVE-button
Finish (Menu)

Start (36)
Use Collomator Button´s to adjust Slot Collimator and Iris Collimator to the Preview Line



Step 1

Step 2

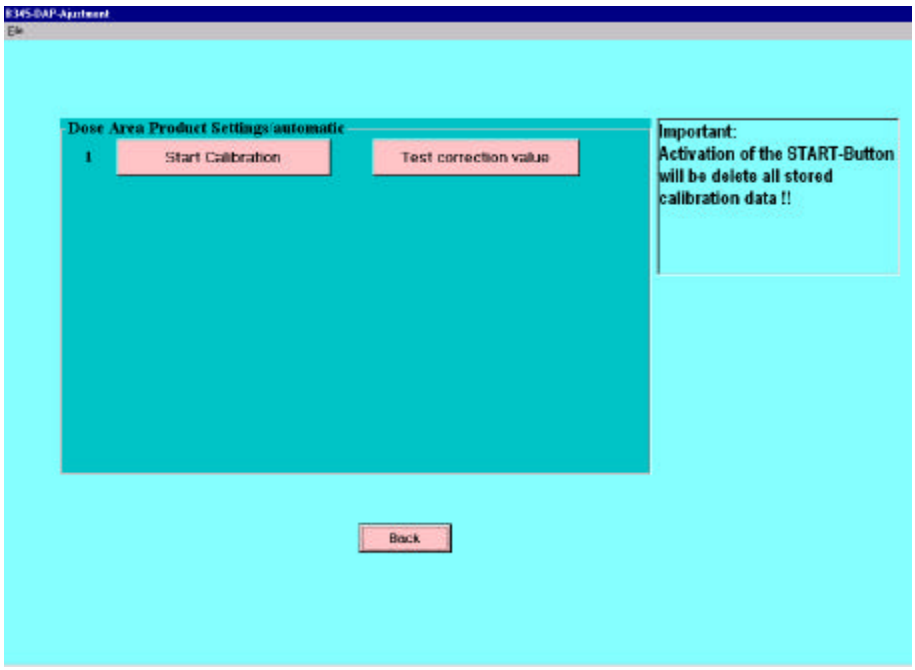
Press „Save (36)“
Press „finish“
Preview Adjustment is now finish
Select Permanent Preview : „**OFF“** (see: Monitorcart settings for Preview)
NOTE: B345 Version is now Change from nc to c (not callibrated to callibrated)

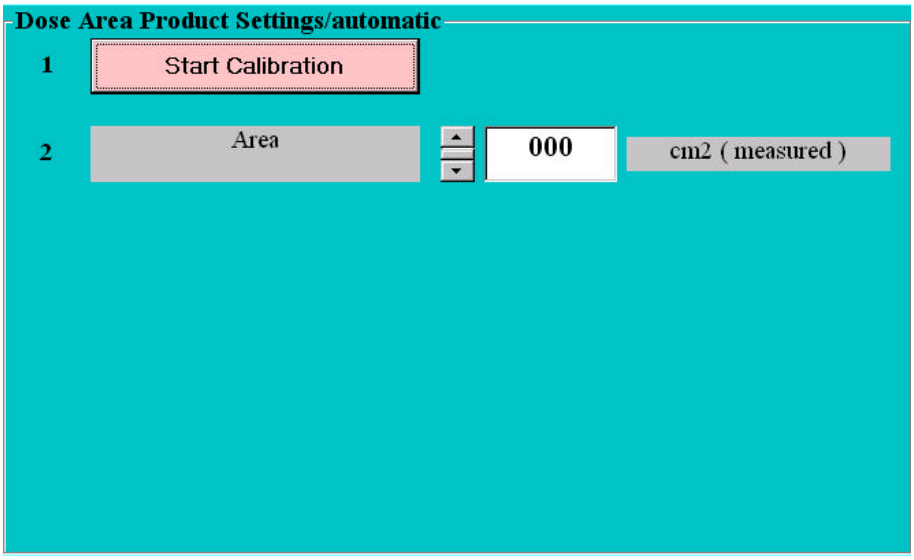
5. DAP Adjustment

„DAP installed“ or „DAP not intaslled “ is aktive after connection to B345

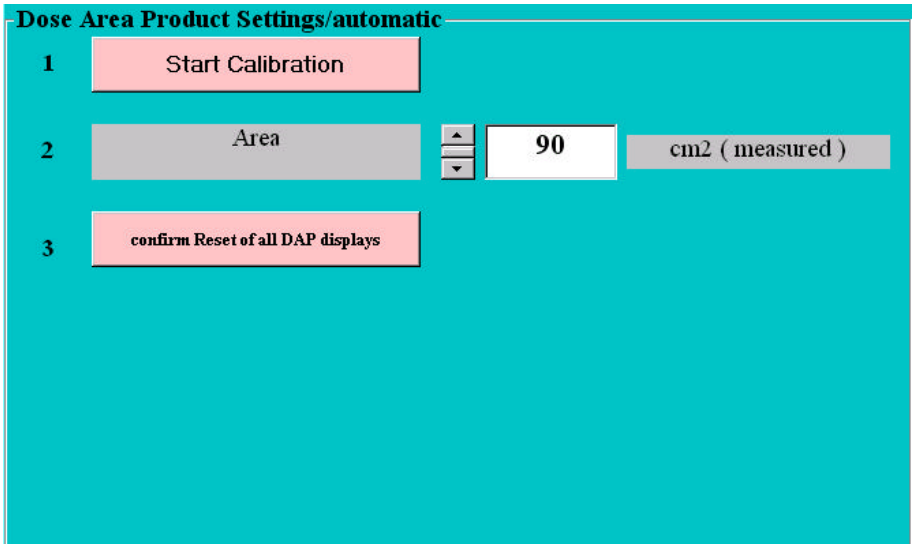
if „DAP installed“ selected than IPS unit start all nesessary communication for DAP
if „DAP not installed“ selected than IPS unit will not start communication for DAP

press „Start calibration“



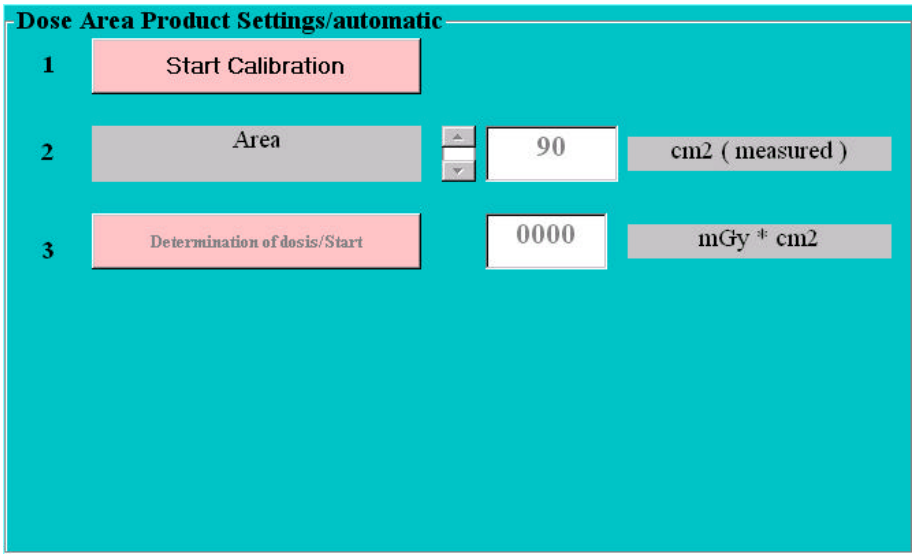


Enter Area example „90 cm²“ messured on II

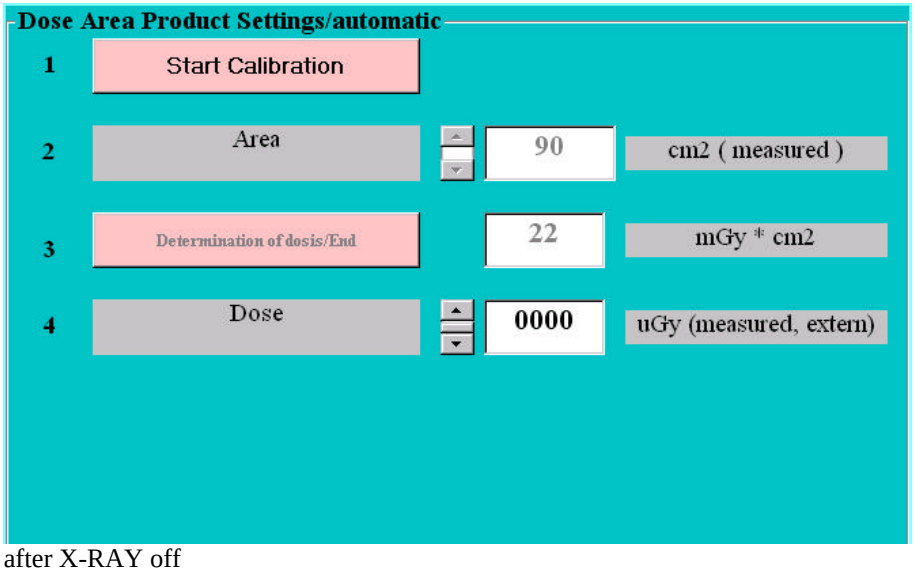


Reset all DAP displays
Dosesmessurement
System 7700 Series make a new patient“
System 7700 Compact press power on and Image store
Select reset DAP

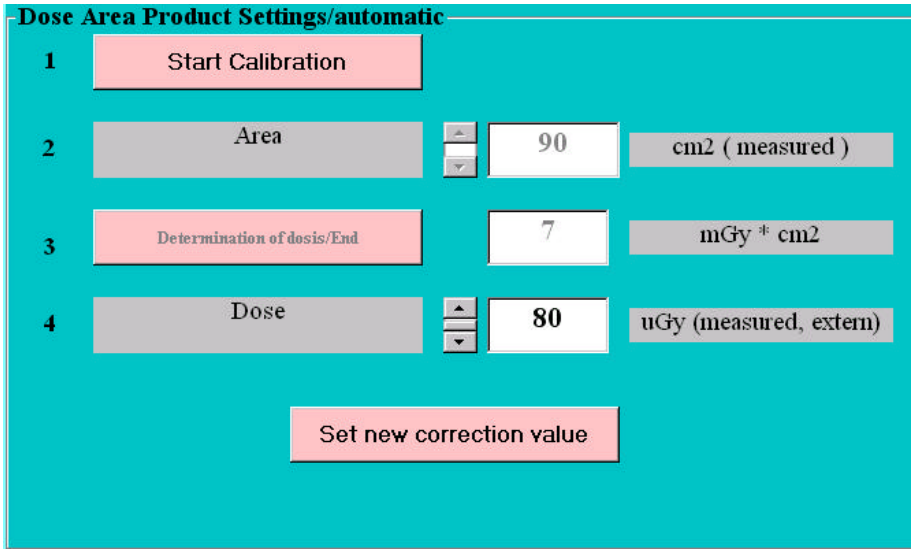
than pess “confirm Reset all DAP displays”



select 75 kV manual
Please make X-RAY (messure external 2500µG)



after X-RAY off
please enter external messured DOSE Value

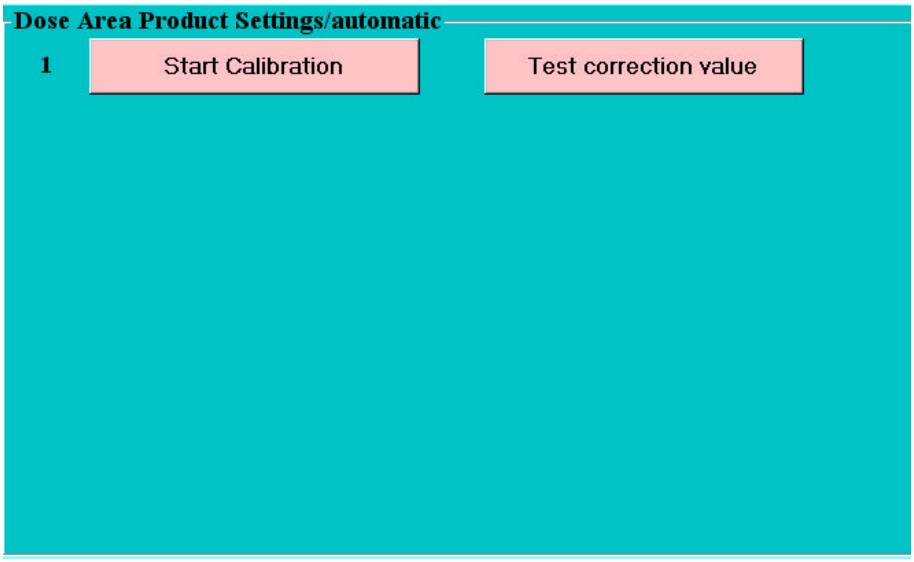


EXAMPLE “80”

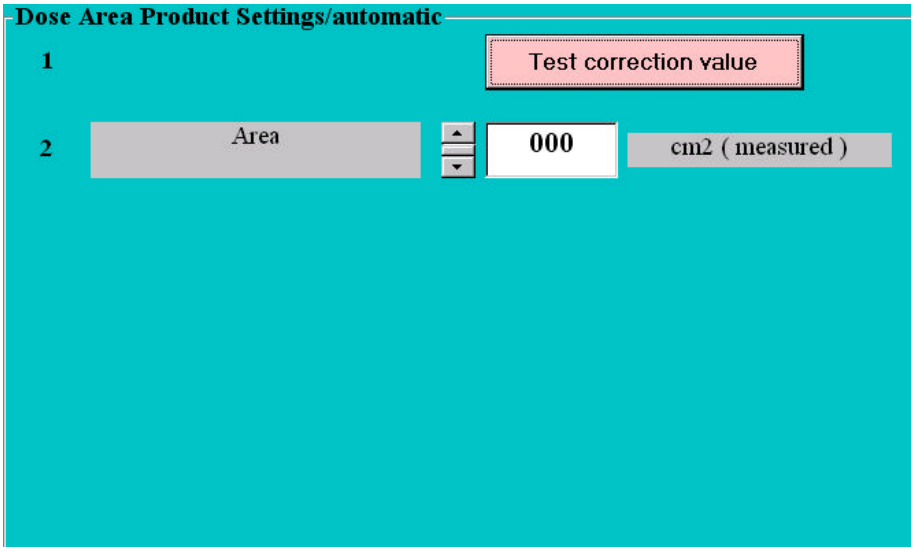
press “Set new correction value”

System will save Mean value, toleranc and correction value to B345

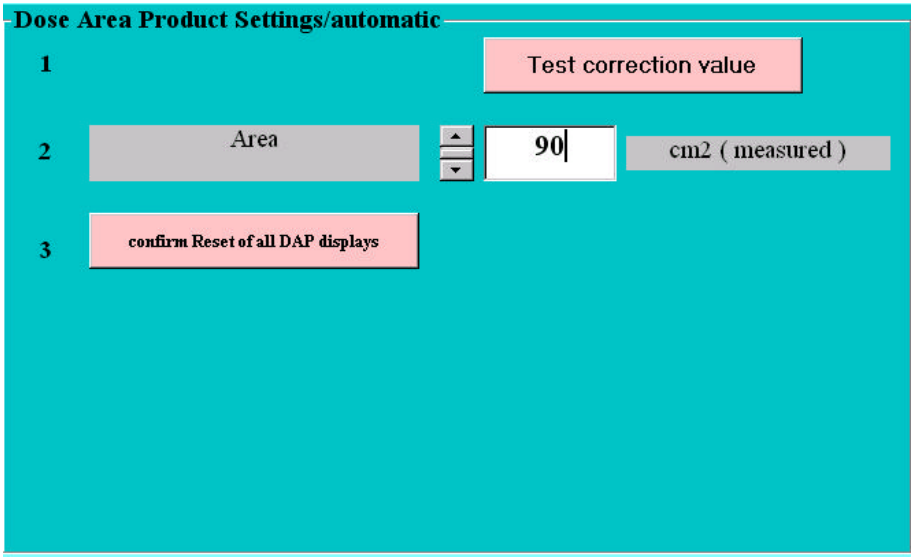
Test correction value
pree „test correction value“



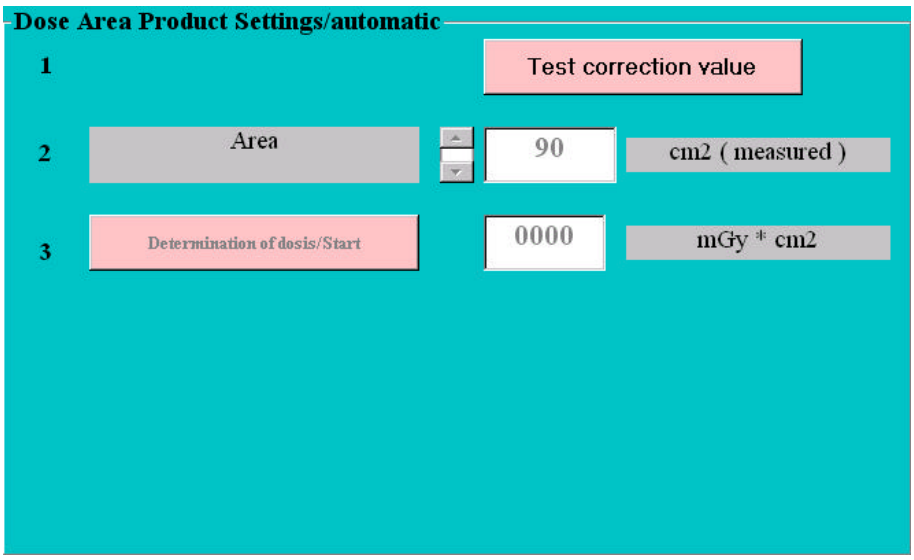
Enter Area



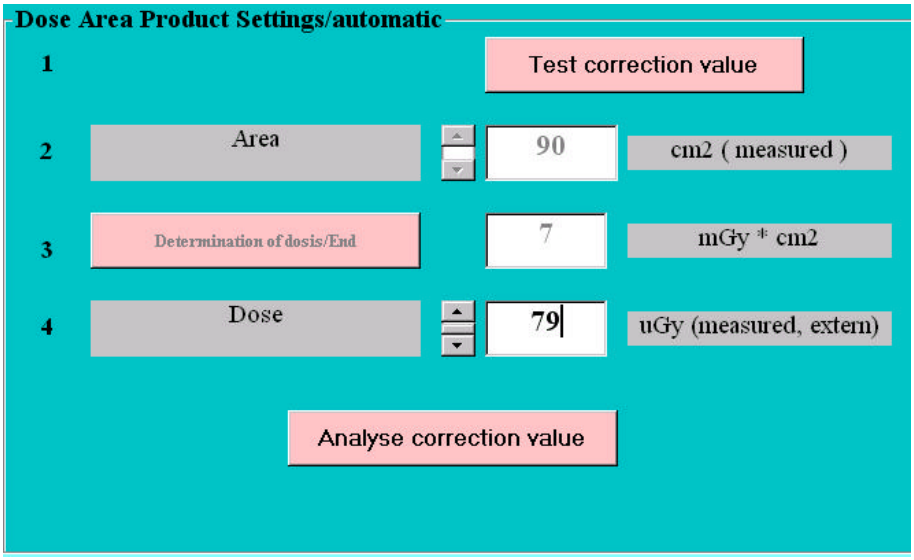
Example „90cm²“



“confirm Reset of all DAP displays

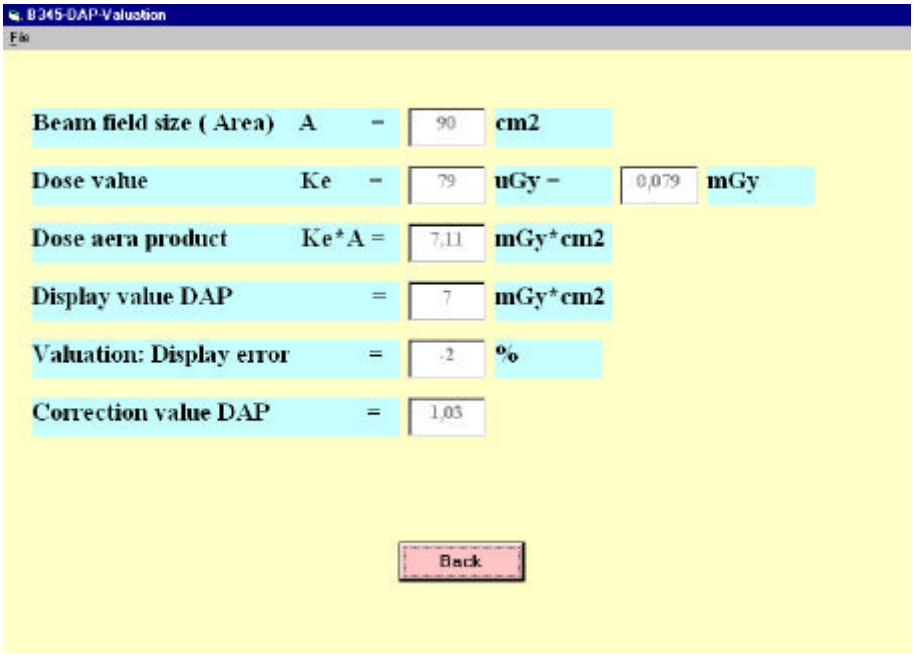


start X-RAY



Enter external messured Dose
Example „79“

pree „Analyse correction value“


B345-DAP-Valuation
File
Beam field size (Area) A = 90 cm2
Dose value Ke = 79 uGy = 0,079 mGy
Dose aera product Ke*A = 7,11 mGy*cm2
Display value DAP = 7 mGy*cm2
Valuation: Display error = -2 %
Correction value DAP = 1,03
Back

for this example Valuation: Display errer = -2%